

Title (en)

APPARATUS AND METHOD TO JOIN A COUPLER AND FLOW TUBE IN AN ULTRASONIC FLOW METER

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERBINDEN EINES KOPPLERS UND EINES STRÖMUNGSRÖHRES BEI EINEM ULTRASCHALL-DURCHFLUSSMESSER

Title (fr)

APPAREIL ET PROCÉDÉ POUR JOINDRE UN COUPLEUR ET UN CANAL DE CIRCULATION DANS UN DÉBITMÈTRE À ULTRASONS

Publication

**EP 4094051 A1 20221130 (EN)**

Application

**EP 21705069 A 20210121**

Priority

- US 202062964309 P 20200122
- US 2021014273 W 20210121

Abstract (en)

[origin: US2021223084A1] A flow sensor sub-assembly for sensing flow of a fluidic medicament includes a flow tube having an inlet and an outlet, a first coupler secured to the inlet of the flow tube, a second coupler secured to the outlet of the flow tube, a first piezo element secured to the first coupler, a second piezo element secured to the second coupler to define a predetermined distance between the first piezo element and the second piezo element, and at least one absorber sleeve engaged with the first coupler, the flow tube, and the second coupler.

IPC 8 full level

**G01F 1/66** (2022.01)

CPC (source: EP US)

**G01F 1/662** (2013.01 - EP US); **G01F 15/185** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**US 11927467 B2 20240312**; **US 2021223084 A1 20210722**; AU 2021210902 A1 20220825; BR 112022013855 A2 20220913; CA 3164139 A1 20210729; CN 115003991 A 20220902; EP 4094051 A1 20221130; JP 2023511568 A 20230320; MX 2022008708 A 20220808; US 2024167863 A1 20240523; WO 2021150652 A1 20210729

DOCDB simple family (application)

**US 202117154015 A 20210121**; AU 2021210902 A 20210121; BR 112022013855 A 20210121; CA 3164139 A 20210121; CN 202180010662 A 20210121; EP 21705069 A 20210121; JP 2022544641 A 20210121; MX 2022008708 A 20210121; US 2021014273 W 20210121; US 202418428736 A 20240131